

Fig. 1

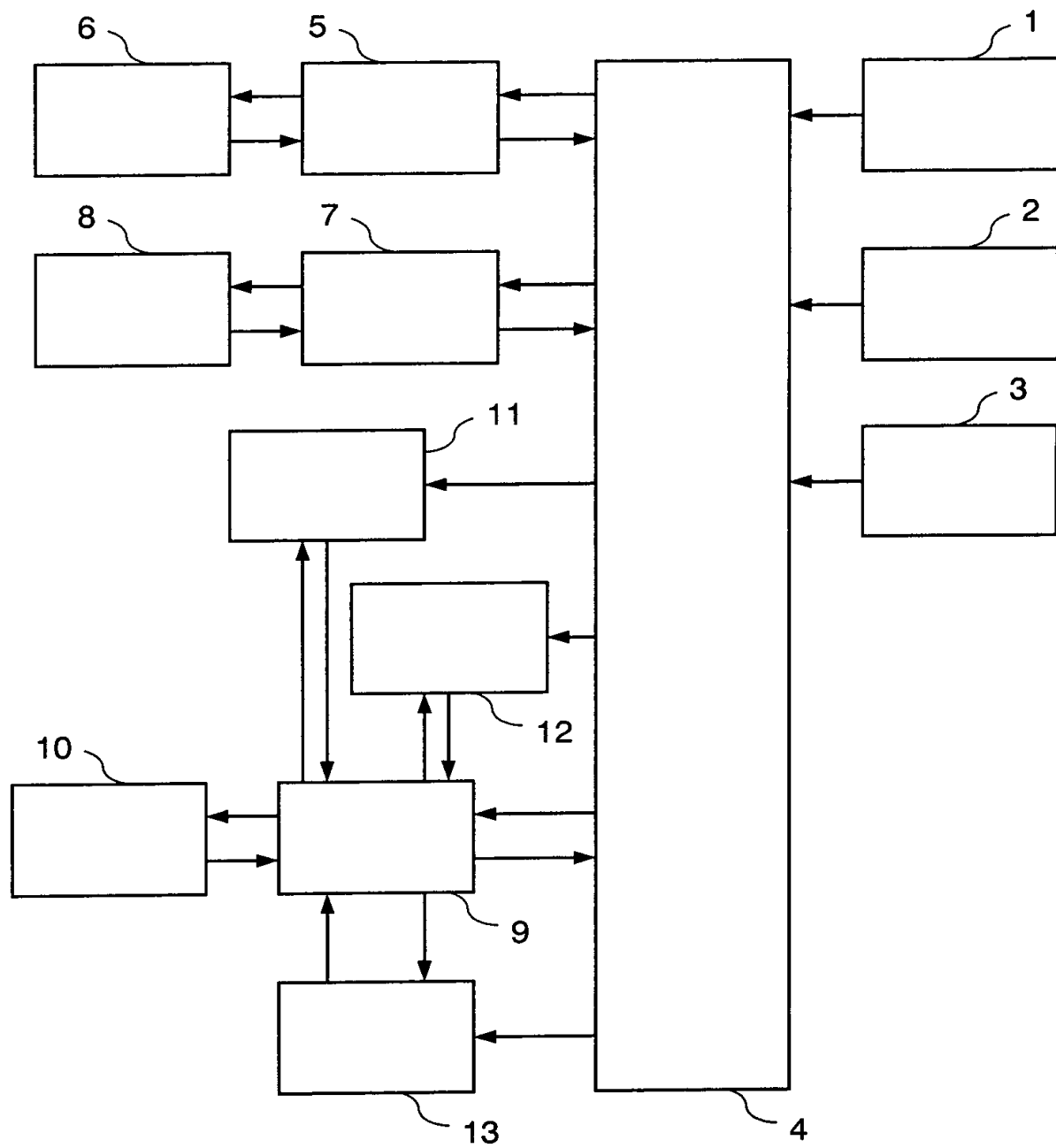


FIG. 1

Fig. 2A

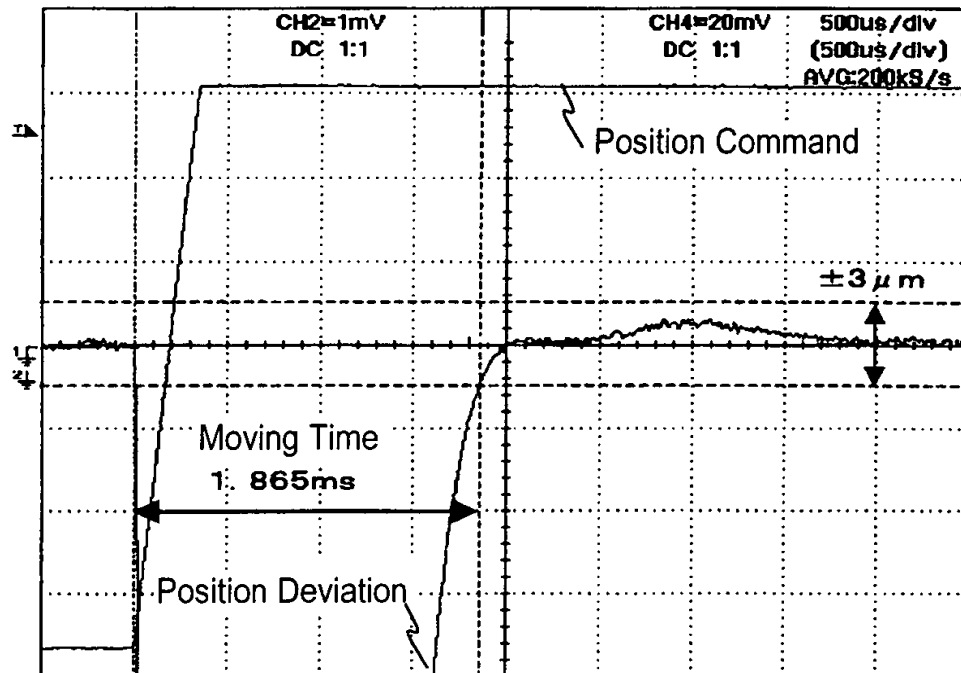


Fig. 2B

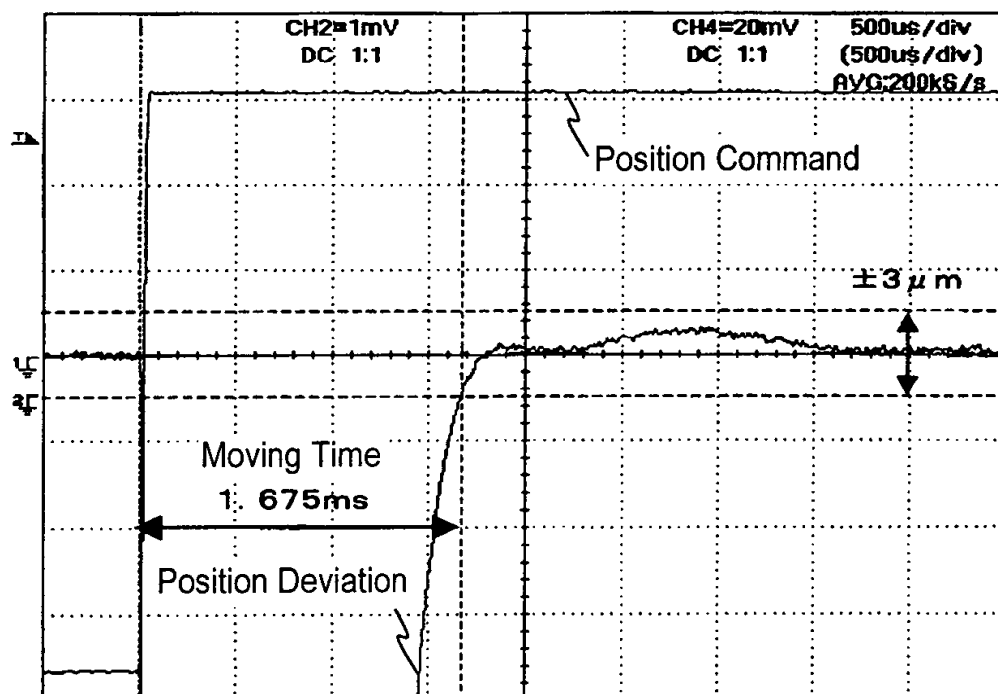


Fig. 3A

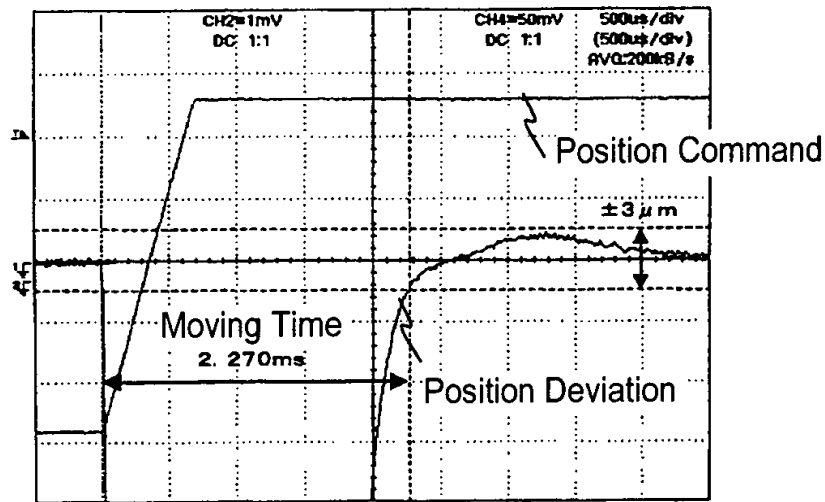


Fig. 3B

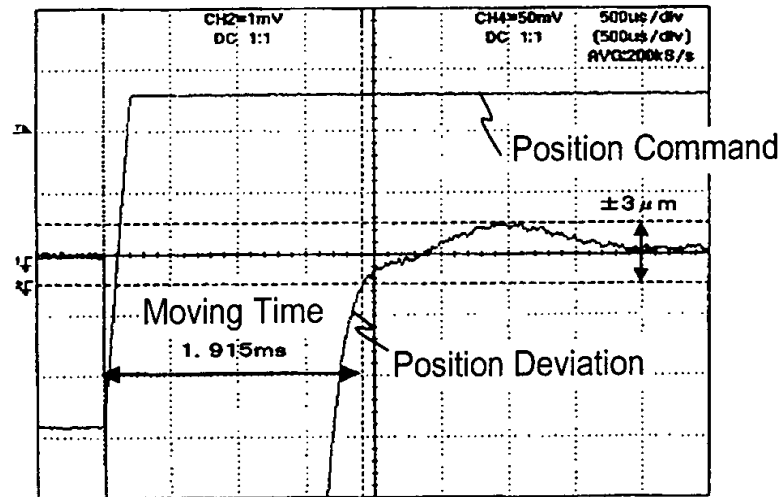


Fig. 3C

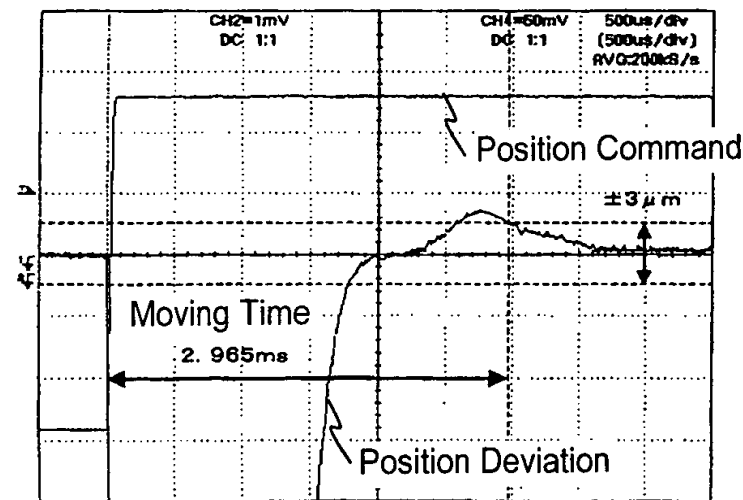
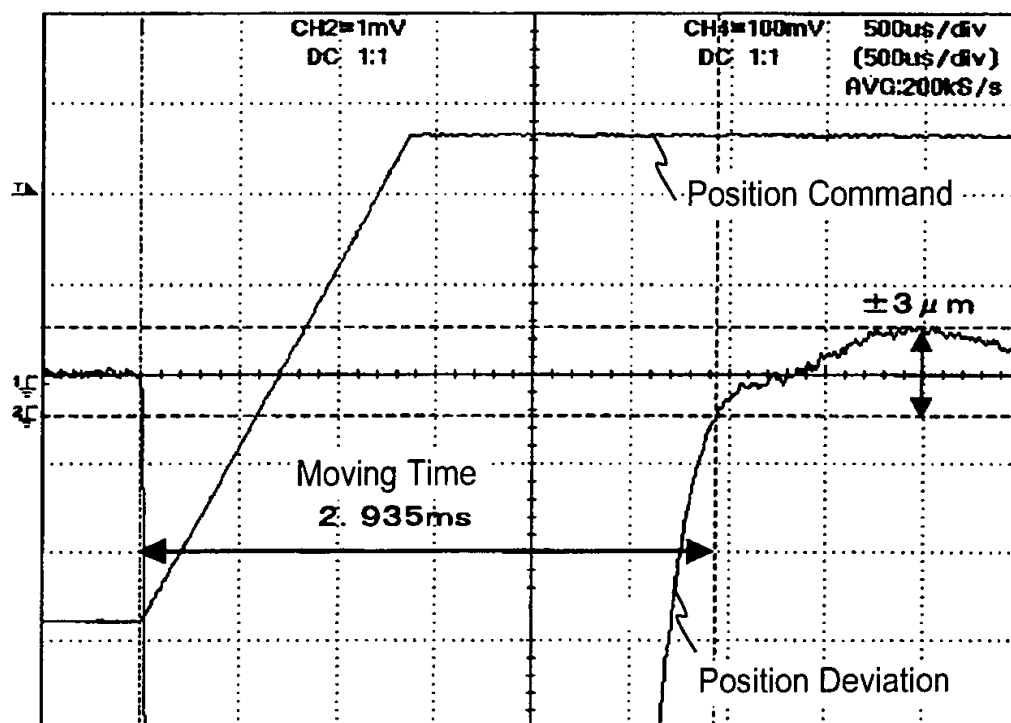


Fig. 4A



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Fig. 5A

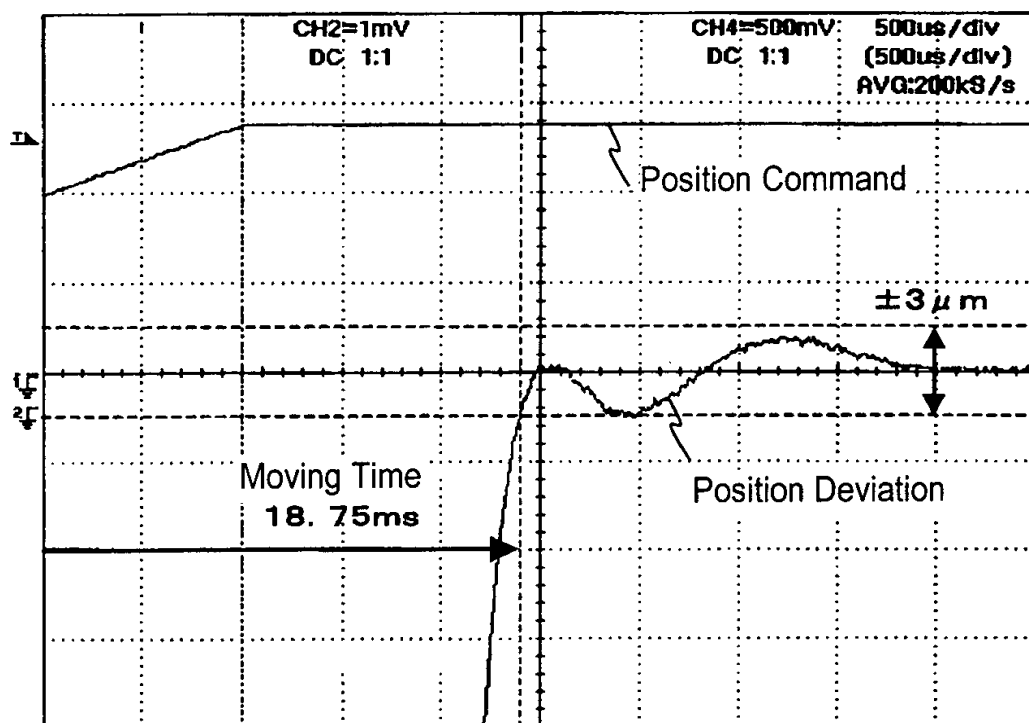


Fig. 5B

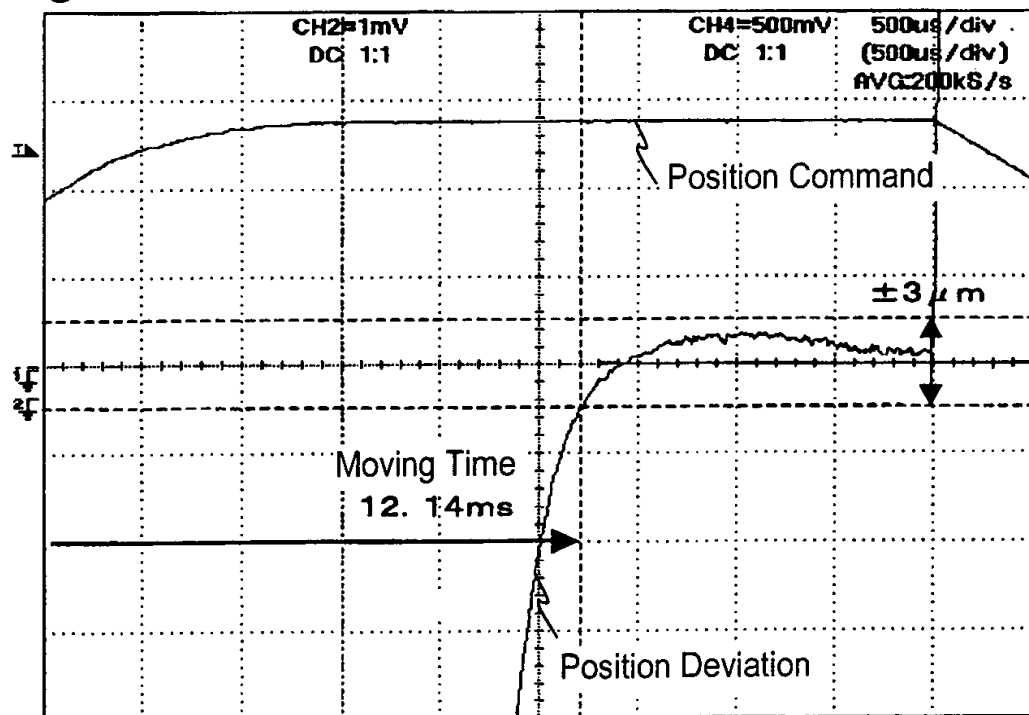


Fig. 6

Moving Distance (mm)	Control Method
0.001 – 1.499	Step Position Command Control Method
1.500 – 4.999	Step Speed Command Control Method
5.000 – 50.000	Trapezoid Speed Command Control Method

Fig. 7

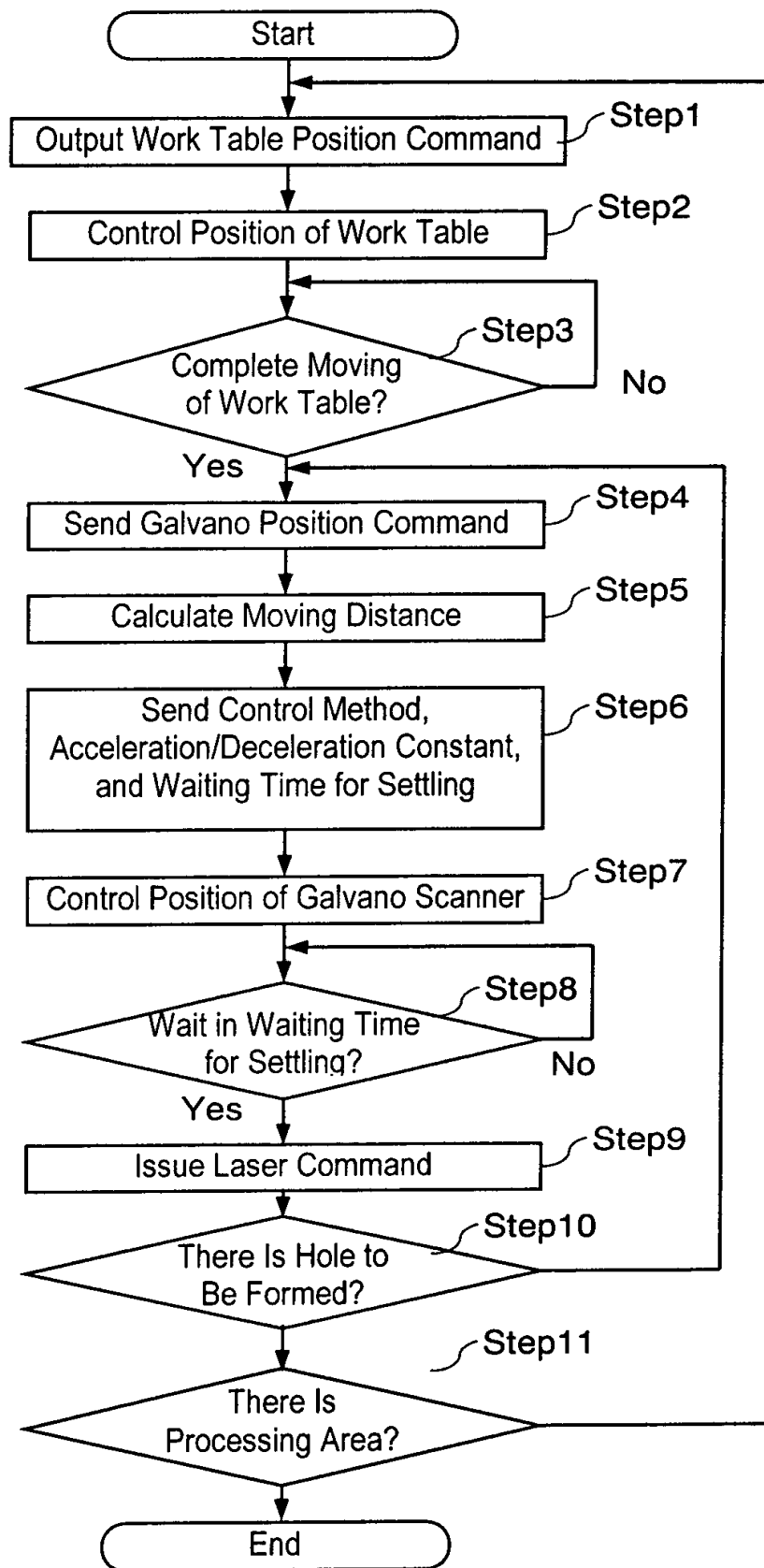
Moving Distance (mm)	Value of Speed Command (mm/ms)
1.500 – 2.999	10
3.000 – 4.999	2.9

Fig. 8

Moving Distance (mm)	Waiting Time for Settling (ms)
0.001 – 1.499	1.720
1.500 – 2.999	1.780
3.000 – 4.999	1.600
5.000 – 50.000	1.240

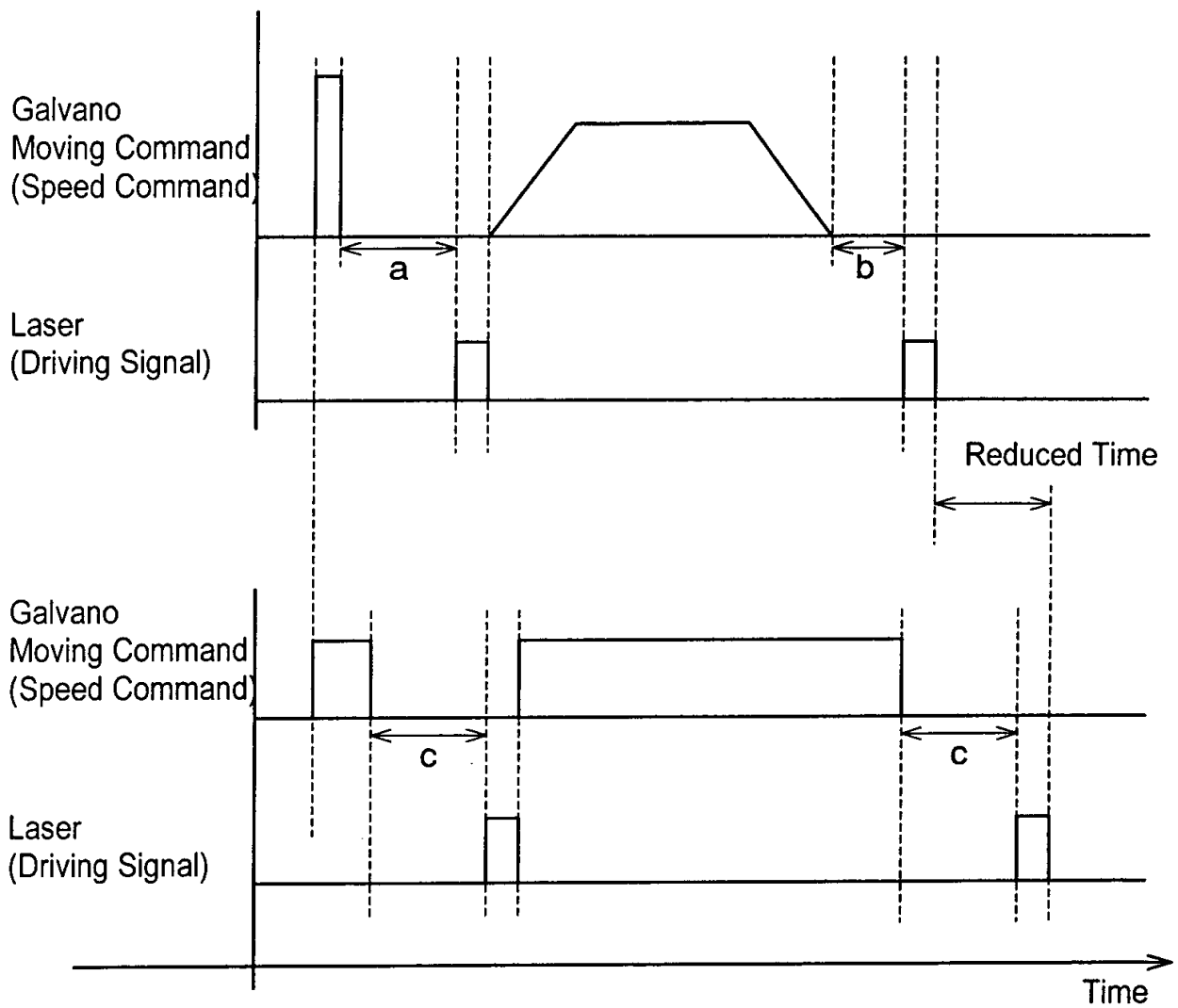
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Fig. 9



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Fig. 10



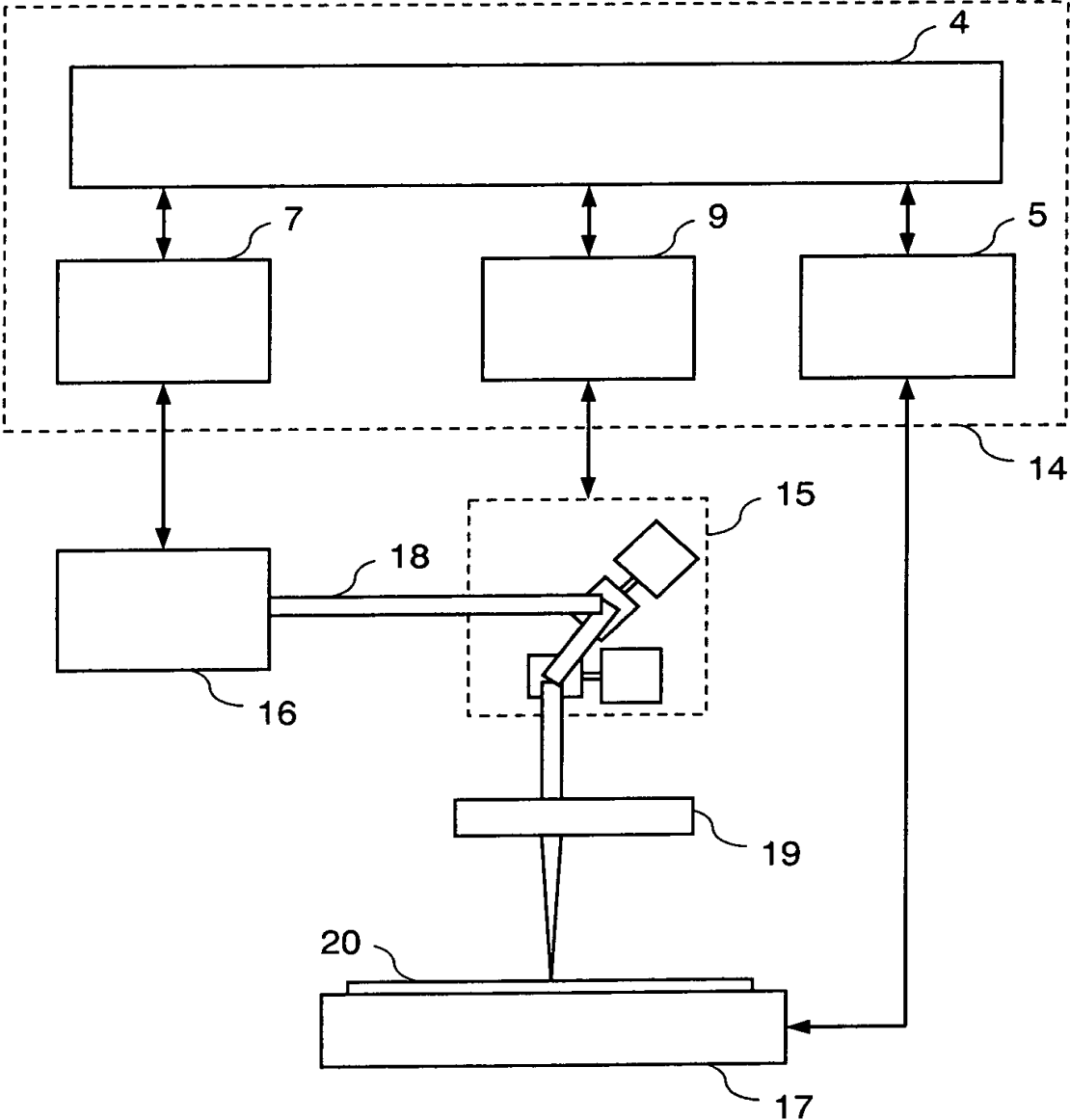
- a: Waiting Time for Settling Corresponding to Moving Distance of 2mm
According to Embodiment
- b: Waiting Time for Settling Corresponding to Moving Distance of 50mm
According to Embodiment
- c: Waiting Time for Settling in Conventional Processing Apparatus

Fig. 11

Moving Distance (mm)	Moving Time According to Embodiment (ms)	Moving Time of Conventional Apparatus (ms)	Ratio of Speed (%)
1.000	1.720	1.945	113
2.000	1.980	2.290	116
4.000	2.980	2.980	100
50.000	12.180	18.840	155

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Fig. 12



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